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INC.

Environmental and Geotechnical Services

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February 10, 1993

Mr. Mike Kuntz  
Washington State Department of Ecology  
P.O. Box 47600, M/S PV-11  
Olympia, WA 98504-8711

RE: COLBERT LANDFILL RD/RA  
PROGRESS REPORT  
JANUARY 1993

Dear Mr. Kuntz:

Presented herein is the January 1993 Progress Report for the Colbert Landfill Remedial Design/Remedial Action (RD/RA) Superfund Project (Project), which was prepared by Landau Associates, Inc., Spokane County's engineering consultant. This progress report addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- Remedial action activities commenced or completed during the reporting period
- Remedial action activities projected to be commenced or completed through February 1993
- Any problems that were encountered or are anticipated.

#### 1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Activities commenced and/or completed during this reporting period include continuation of Phase II well construction, initial groundwater sampling of recently completed extraction wells and the boring for proposed Extraction Well CP-W4, and meeting with Ecology and EPA to discuss National Pollutant Discharge Elimination System (NPDES) issues and modifications to the Lower Sand/Gravel Aquifer extraction systems. Specific activities performed during this reporting period included:

- Phase II well construction is ongoing. The following well construction activities occurred during the reporting period (refer to the appropriate Phase II work plans for well locations):
  - Construction of Monitoring Well CD-44C3 was completed January 19, 1992. The well is completed in the Lower Sand/Gravel Aquifer and is screened from about 282-292 ft below ground surface (BGS).

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- Screen installation for Extraction Well CP-S3 was completed January 20, 1993. The well is completed in the Upper Sand/Gravel Aquifer and is screened from about 86-96 ft BGS.
- Screen installation for Extraction Well CP-S4 was completed January 12, 1993. The well is screened in the Upper Sand/Gravel Aquifer from about 99-107 ft BGS.
- Drilling was completed for Extraction Well CP-S5 January 28, 1993. The well will be screened in the Upper Sand/Gravel Aquifer from about 95-103 ft BGS.
- Drilling for Extraction Well CP-E3 was initiated January 21, 1993. The boring was advanced to a depth of 105 ft BGS by the end of January.
- Groundwater samples were collected on January 26 to January 28, 1993, from Extraction Wells CP-S3 and CP-S4, and the boring drilled for proposed Extraction Well CP-W4. Samples were analyzed for volatile organic compounds (VOC) by EPA Method 8010. Based on preliminary analytical results, no VOCs were detected in Extraction Well CP-S3 or Boring CP-W4. All of the Constituents of Concern (except methylene chloride) were detected in the Extraction Well CP-S4 sample. If the final results are consistent with these preliminary results, Extraction Well CP-S3 will be used as the cross gradient monitoring well for the South Interception System and the well originally planned for this function (CP-S2) will not be constructed.
- A meeting was held on January 11, 1993, to discuss NPDES issues and modifications to Lower Sand/Gravel Aquifer Phase II groundwater extraction necessary to address the hydrogeologic conditions encountered at the planned Extraction Well CP-W4 location. The meeting was held at EPA Region 10 offices in Seattle, Washington, and was attended by EPA, Ecology, and Spokane County representatives. The primary decisions which resulted from the meeting are:
  - Phase II design will be resumed, and remaining NPDES issues will be resolved independent of (and concurrent with) Phase II design and construction.
  - Spokane County will evaluate background phosphorus concentrations for groundwater in the site vicinity.
  - Proposed Extraction Wells CP-E4 and CP-W4 will be eliminated from the remedial action and flow rate for other planned extraction wells will be increased to compensate for the eliminated wells.

Spokane County will prepare a meeting memorandum (as identified in Section 2.0) that provides additional discussion of the issues addressed at the January 11, 1993 meeting.

- Phase II design was resumed. Revision of the preliminary Treatment and Discharge Plan, and preparation of the Project plans and specifications (90 percent design) is ongoing.

## **2.0 ACTIVITIES/PROJECTS TO BE COMMENCED/COMPLETED DURING THE NEXT REPORTING PERIOD**

The next reporting period extends through February 1993. Anticipated activities for the next reporting period include:

- Continue Phase II well construction activities. Construction of Extraction Wells CP-S5, CP-S6, and CP-E3 should be completed by late February. Drilling for Extraction Well CP-W3 should be initiated by late February.
- Groundwater sampling to evaluate phosphorus background concentrations should be completed by late February. Background wells planned for sampling are Wells CD-5, CD-40C2, CD-43C2, CD-44C2, CD-45C2, CD-48C3, CD-32A, CD-36A, and CD-38A. Additionally, the monitoring wells used to estimate effluent quality (CD-21C1, CD-30A to CD-46C2, and CD-47C2) will be resampled and the Little Spokane River will be resampled at the planned outfall and near its mouth. All samples will be tested for total phosphorus.
- A written response to Ecology's December 22, 1992 letter regarding NPDES issues will be submitted by late February.
- A memorandum describing the issues discussed during the January 11, 1993 meeting will be submitted by late February.
- The revised (final) Phase II Treatment and Discharge Plan (T&D Plan) will be submitted for EPA and Ecology review by February 26, 1993.
- Design of the Phase II remedial action will continue, and the preliminary (90 percent) Plans and Specifications will be submitted for EPA and Ecology review by February 26, 1993.

## **3.0 ENCOUNTERED/ANTICIPATED PROBLEMS**

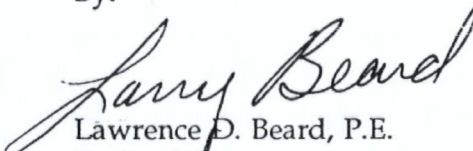
No problems were encountered during the present reporting period, or are anticipated for the next reporting period. However, the importance of EPA and Ecology reviewing the T&D Plan and preliminary Plans and Specifications within the scheduled 30-day review period cannot be overstated. Completion of Phase II construction in 1993 requires that design and contractor selection be completed by late spring. This can only occur if review of the 90 percent design is completed within the scheduled review period. It is also requested that EPA and Ecology approve the Project for construction based on review of the preliminary Plans and Specifications, provided substantive EPA and Ecology comments are adequately addressed; this would allow contractor selection and construction to move forward, and allow construction to be completed this year.

\* \* \* \* \*

This report describes progress on only the primary Project remedial action activities. There are peripheral activities associated with the primary activities that are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for peripheral activities, please contact Landau Associates or Dean Fowler (Spokane County).

LANDAU ASSOCIATES, INC.

By:

  
Lawrence D. Beard, P.E.  
Project Manager

LDB/sms  
No. 124001.60

cc: Neil Thompson, U.S. EPA  
Dean Fowler, Spokane County  
Lyle Diedieker, Ecology & Environment, Inc.